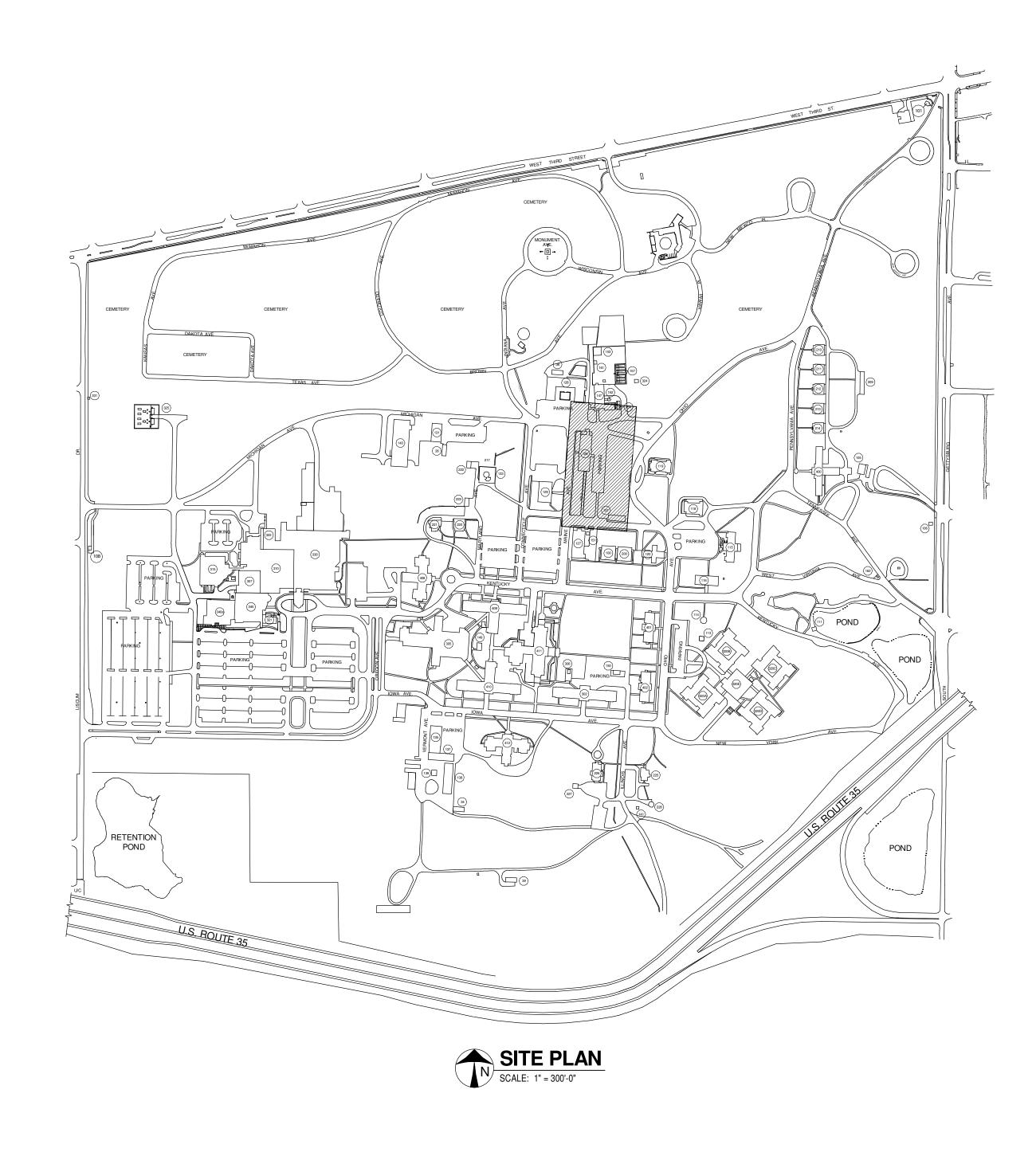
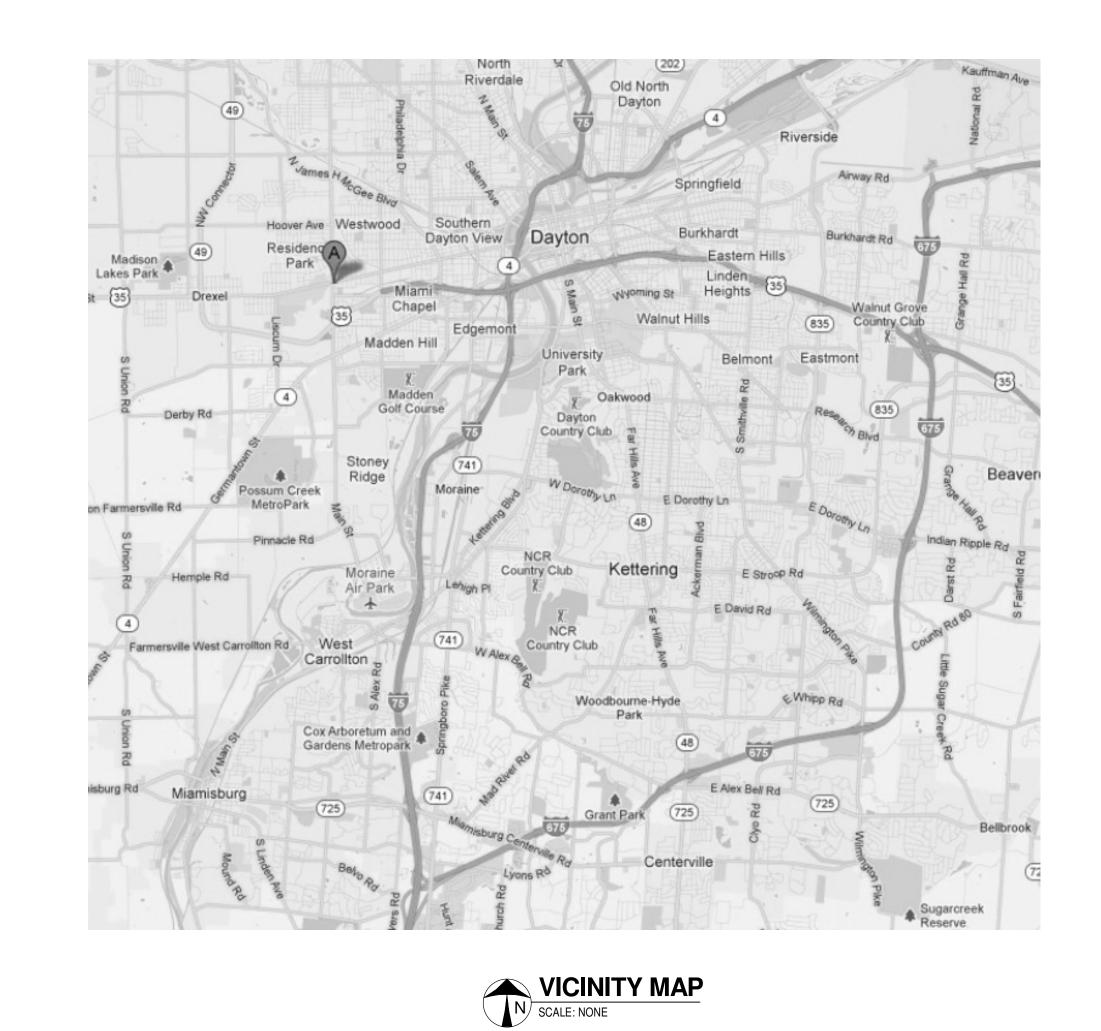


one-eighth inch = one foot

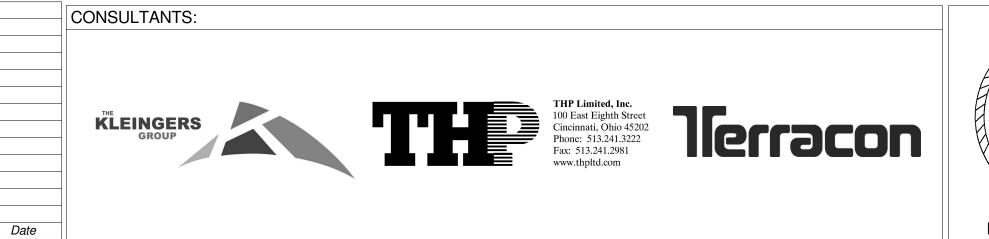
INSTALL STEAM LINE BYPASS B147 TO B121

DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER 4100 WEST THIRD STREET DAYTON, OHIO 45428

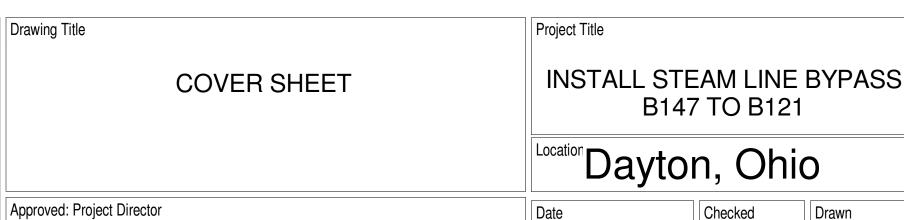




INDEX OF DRAWINGS					
SHEET	DESCRIPTION				
GI001	COVER SHEET				
C100	GENERAL NOTES AND DETAILS				
C110	SURVEY BASEMAP				
C120	DEMOLITION PLAN				
C130	LOCATION/UTILITY PLAN				
C140	GRADING PLAN				
C150	EROSION CONTROL NOTES AND DETAILS				
C160	MAINTENANCE OF TRAFFIC				
M001	LEGEND AND GENERAL NOTES				
MD100	TUNNEL PLAN - REMOVALS				
MH100	TUNNEL PLAN - NEW WORK				
MH101	PARTIAL TUNNEL PLAN - REMOVALS AND NEW WORK				
M301	ENLARGED PLANS AND SECTIONS				
M501	DETAILS				









INSTALL STEAM LINE BYPASS B147 TO B121

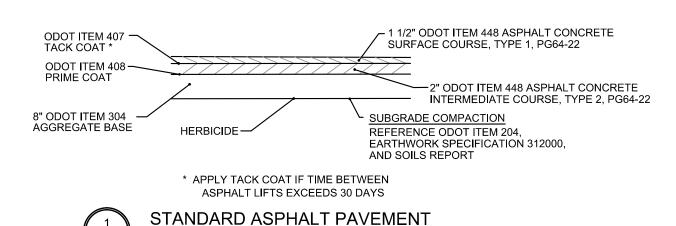
SECTION 1, TOWN 3, RANGE 5 EAST CITY OF DAYTON MONTGOMERY COUNTY, OHIO

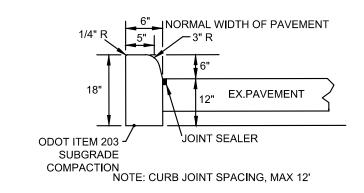
GENERAL NOTES

- 1. ALL PLANS & CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT VA DESIGN STANDARDS, "RULES AND REGULATIONS" OF CITY OF DAYTON AND APPLICABLE OHIO DEPARTMENT OF TRANSPORTATION STANDARDS.
- 2. THE CONTRACTOR IS TO PERFORM ALL INSPECTIONS AS REQUIRED BY THE OHIO EPA FOR THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND FURNISH CORS REPRESENTATIVE WITH WRITTEN REPORTS. CONTRACTOR TO OBTAIN NPDES PERMIT
- ITEM NUMBERS REFER TO THE 2013 OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION TO SAID SPECIFICATIONS AND IN ACCORDANCE WITH APPLICABLE STANDARDS OF THE VA, AND THE CITY OF DAYTON. WHEN IN CONFLICT, THE VA REQUIREMENTS SHALL PREVAIL.
- 4. CONTRACTOR TO CLEAR AREAS AS CALLED OUT ON PLANS TO PERFORM ALL SITE WORK INCLUDING GRADING AND UTILITY WORK.
- 5. PROTECTION OF EXISTING TREES AND VEGETATION: PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.
- 6. ALL ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.
- 7. THE CONTRACTOR IS RESPONSIBLE FOR BALANCING THE SITE EARTHWORK BY IMPORTING OR EXPORTING AS NECESSARY TO ACHIEVE DESIGN GRADES AND SPECIFICATIONS.
- 8. ADJUST ALL EXISTING CASTINGS, CLEANOUTS, ETC. WITHIN PROJECT AREA TO GRADE AS
- 9. CONTRACTOR SHALL IMPLEMENT ALL APPLICABLE SOIL AND EROSION CONTROL PRACTICES REQUIRED BY CITY OF DAYTON AND THE OHIO EPA.
- 10. ALL GROUND SURFACE AREAS THAT HAVE BEEN EXPOSED OR LEFT BARE AS A RESULT OF CONSTRUCTION AND ARE TO FINAL GRADE AND ARE TO REMAIN SO, SHALL BE SEEDED AND MULCHED AS SOON AS PRACTICAL IN ACCORDANCE WITH SPECIFICATIONS. IF NO SPECIFICATIONS ARE SUPPLIED USE STATE OF OHIO SPECIFICATIONS ITEM 659.
- 11. THE CONTRACTOR IS TO CONSTRUCT PAVEMENT AND GRADING AS REQUIRED TO CONVEY THE PAVED SURFACE DRAINAGE TO THE EXISTING STORM SEWER SYSTEM..
- 12. WHERE CURB IS PRESENT, DIMENSIONS ARE SHOWN TO THE FACE OF CURB, OTHERWISE DIMENSIONS ARE SHOWN TO THE EDGE OF PAVEMENT.
- 13. CONTRACTOR TO REMOVE & REPLACE PAVEMENT TO THE LIMITS SPECIFIED OR TO THE NEAREST JOINT.
- UNIFORM TRAFFIC CONTROL DEVICES, AND MEET 2013 ADA STANDARDS.

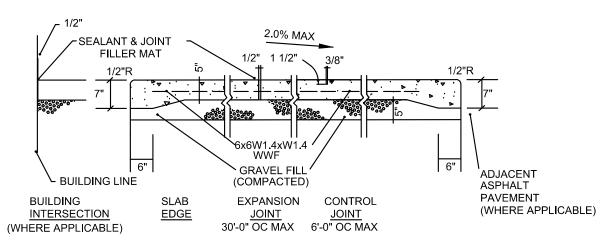
14. FINAL SITE SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE OHIO MANUAL OF

- 15. CONTRACTOR TO GRADE LAWN AREAS TO DRAIN TO EXISTING STORM INLETS, INSTALLATION OF YARD DRAINS IS TO BE AVOIDED.
- 16. ALL STORM STRUCTURES ARE ODOT TYPES UNLESS OTHERWISE INDICATED.
- 17. STORM SEWER PIPE LABELED "STM" SHALL BE ONE OF THE FOLLOWING: PVC SDR-35, PVC PROFILE PIPE PER ODOT ITEM 707.42, HIGH DENSITY POLYETHYLENE PER ODOT ITEM 707.33, ALUMINIZED CORRUGATED METAL, ODOT ITEM 707.01, 707.02, OR REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. STORM SEWER PIPE LABELED "RCP" SHALL BE REINFORCED CONCRETE PIPE, ODOT ITEM 706.02 CLASS IV. ALL STORM IS TO BE INSTALLED PER ODOT ITEM 603. ALL STORM PIPE USED MUST HAVE A MANUFACTURER SPECIFIED FRICTION FACTOR OF 0.013 (n=0.013) OR LESS.
- 18. STORM SEWER IS TO BE BEDDED WITH CLEAN GRANULAR MATERIAL-AGGREGATES NOT TO BE LARGER THAN 3/4" AND NOT SMALLER THAN NO. 8 SIEVE, FREE OF SILT AND FINES, AASHTO M43 SIZE #67, 7 OR 8. BEDDING TO BE MINIMUM OF 6" BELOW & 12" ABOVE THE PIPE.
- 19. DISTANCES SHOWN FOR STORM PIPE ARE MEASURED FROM CENTER OF STRUCTURE. CONTRACTOR RESPONSIBLE FOR ACTUAL FIELD CUT LENGTH. COORDINATES FOR SANITARY STRUCTURES ARE SHOWN TO THE CENTER OF STRUCTURE.



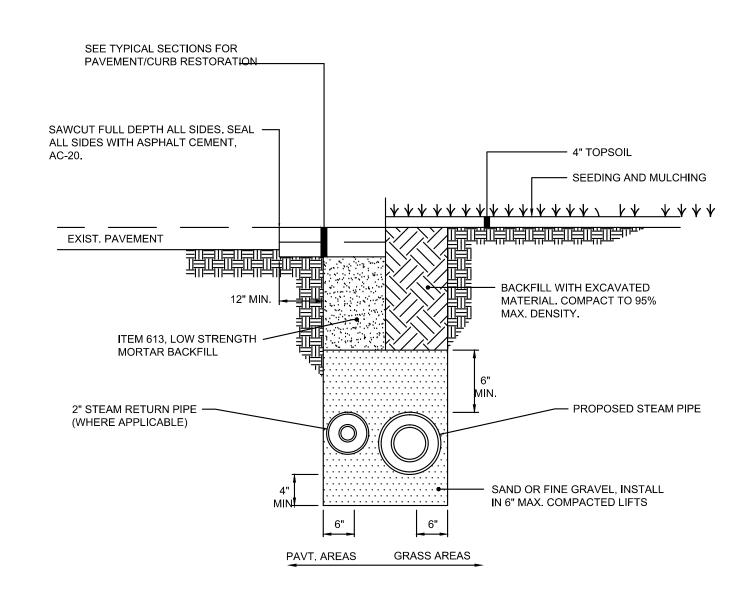




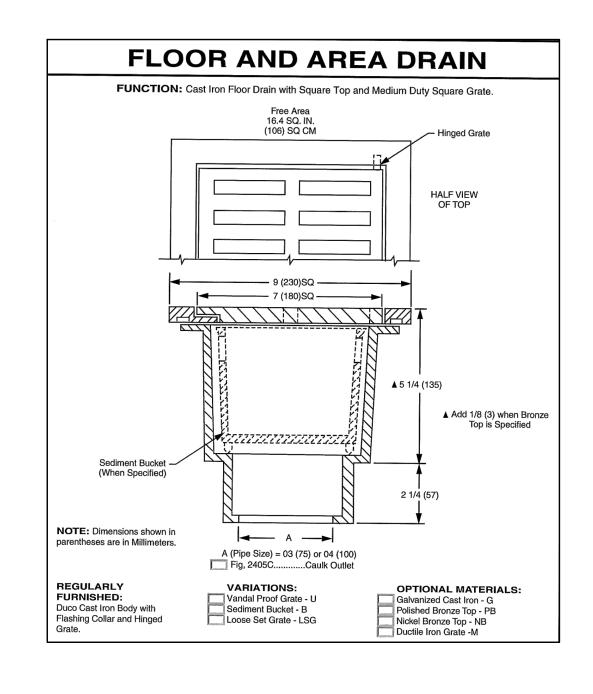


NOTES:
-WHERE PROPOSED WALK MEETS EXISTING WALK CONTRACTOR TO INSTALL EXPANSION JOIN THAT MEETS ASTM 1752 WITH JOINT SEALANT -TERMINATE JOINT FILLER NOT LESS THAN 1 OR MORE THAN 1 BELOW FINISHED SURFACE. PROTECT TOP EDGE OF JOINT FILLER DURING CONCRETE PLACEMENT WITH TEMPORARY PREFORMED CAP. APPLY JOINT SEALANT - COLOR TO MATCH

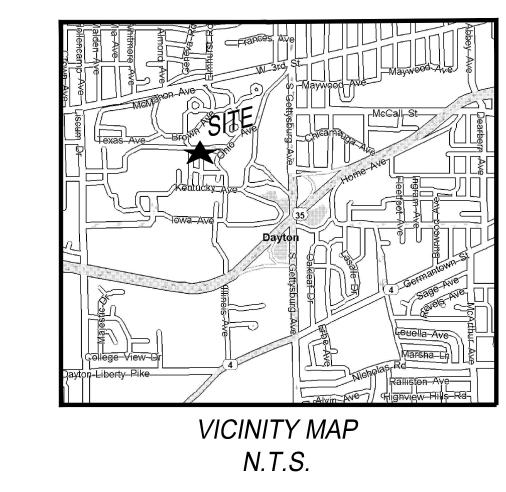








PIT DRAIN DETAIL

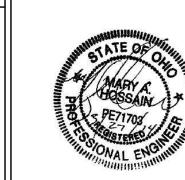


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C100	GENERAL NOTES AND DETAILS				
C110	SURVEY BASEMAP				
C120	DEMOLITION PLAN				
C130	LOCATION/UTILITY PLAN				
C140	GRADING PLAN				
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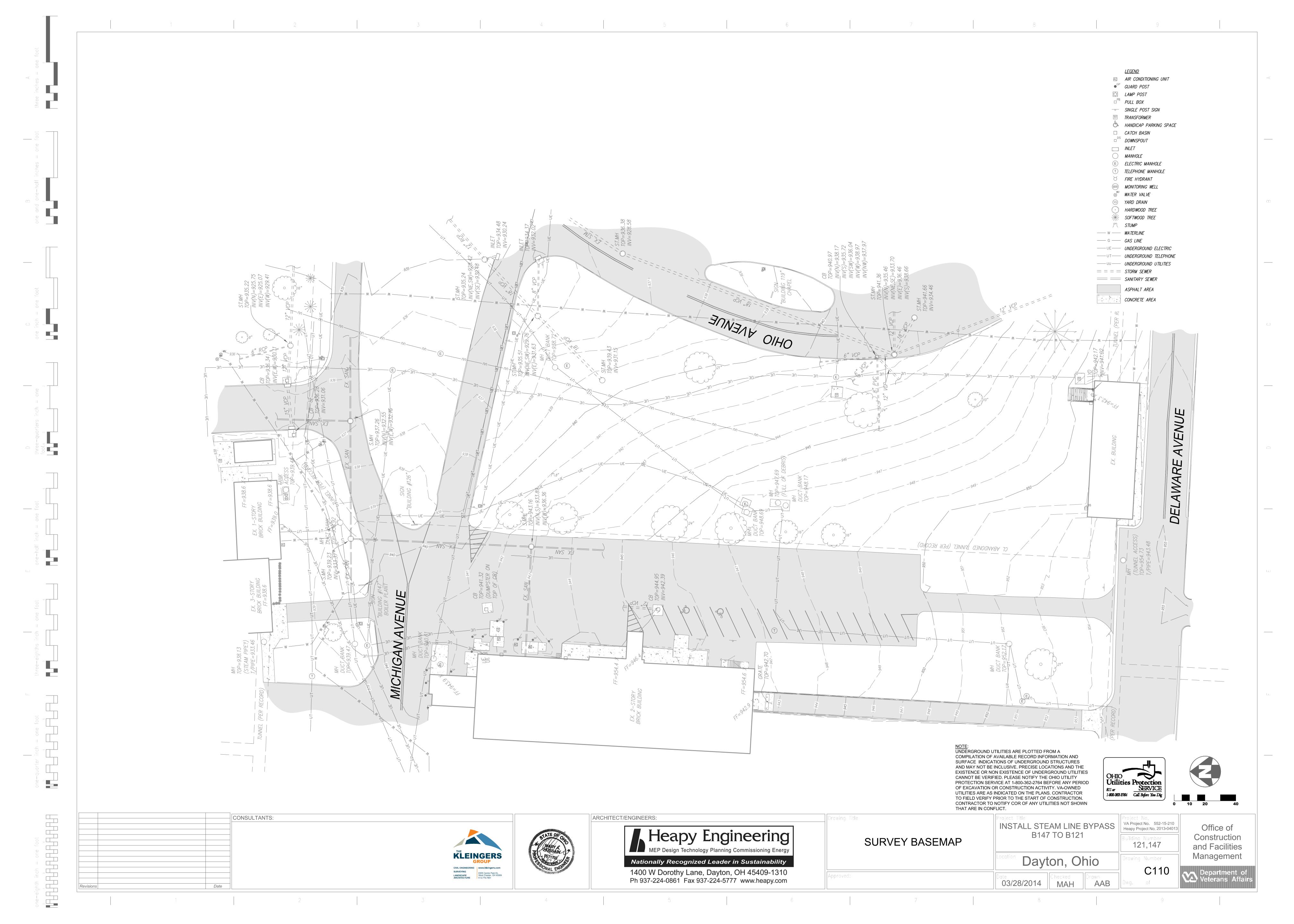
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GENERAL NOTES	INSTALL STEAM LINE B147 TO B121
AND DETAILS	
	Location Dayton, Ol

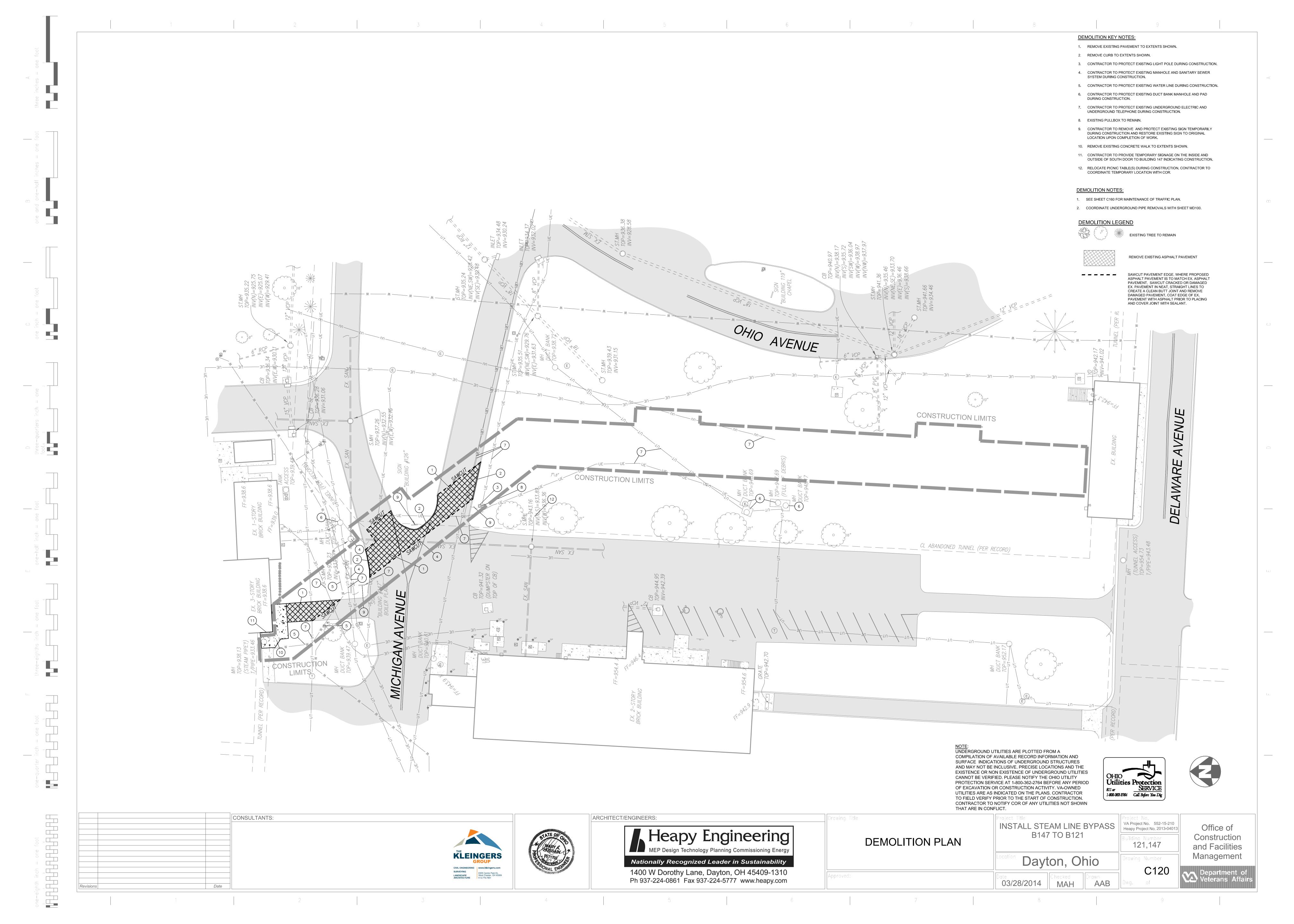
E BYPASS | VA Project No. 552-15-210 | Heapy Project No. 2013-04013 121,147 MAH

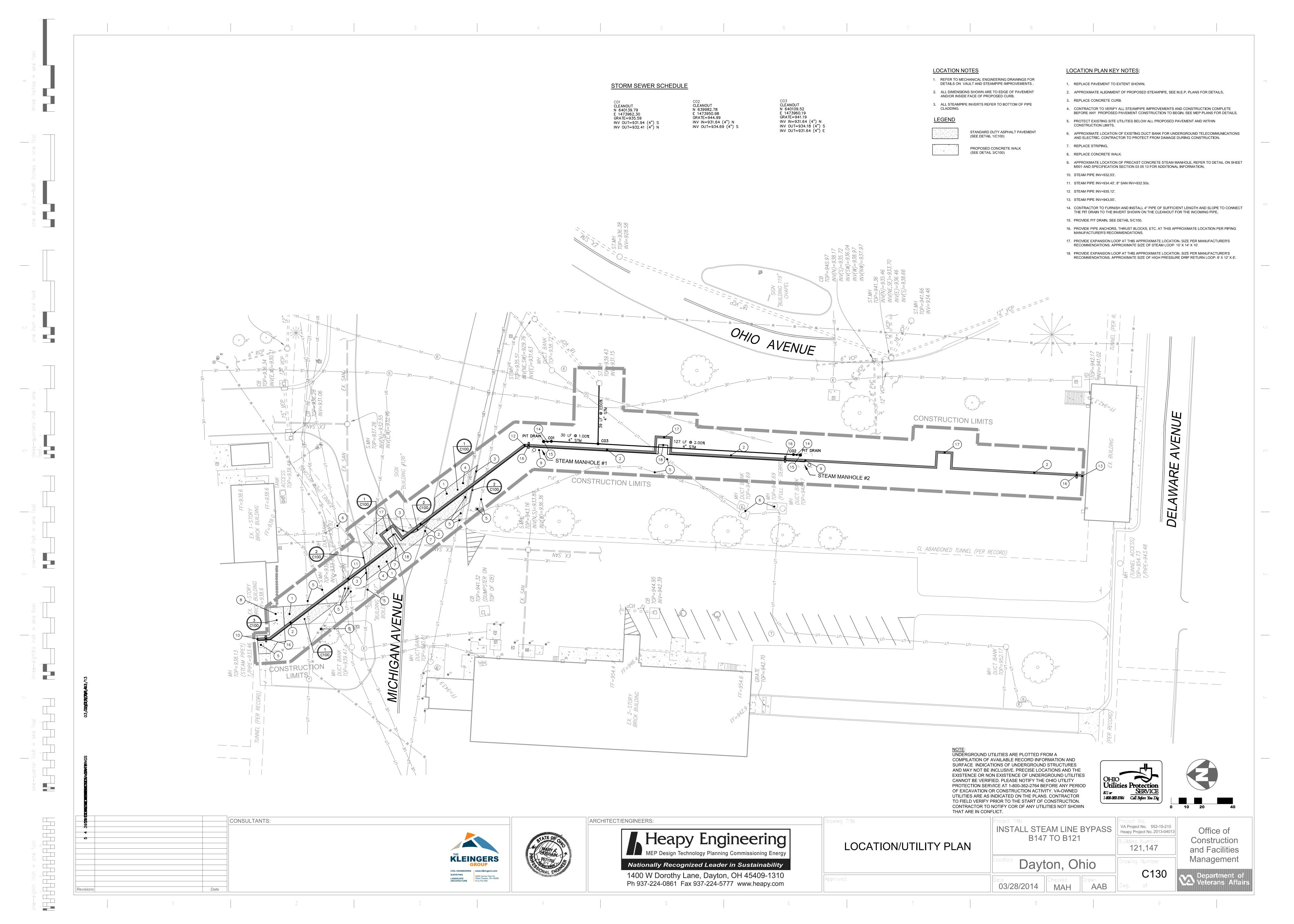
Office of Construction and Facilities Management Department of Veterans Affairs











GRADING NOTES:
SEE SHEET C150 FOR EROSION CONTROL DETAILS PROPOSED ELEVATION imes 844.53EX. EXISTING ELEVATION OHIO AVENUE NOTE:
UNDERGROUND UTILITIES ARE PLOTTED FROM A COMPILATION OF AVAILABLE RECORD INFORMATION AND OHIO
Utilities Protection

811 or
1-800-362-2764 SERVICE
Call Before You Dig SURFACE INDICATIONS OF UNDERGROUND STRUCTURES EXISTENCE OR NON EXISTENCE OF UNDERGROUND UTILITIES CANNOT BE VERIFIED. PLEASE NOTIFY THE OHIO UTILITY PROTECTION SERVICE AT 1-800-362-2764 BEFORE ANY PERIOD OF EXCAVATION OR CONSTRUCTION ACTIVITY. VA-OWNED UTILITIES ARE AS INDICATED ON THE PLANS. CONTRACTOR TO FIELD VERIFY PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO NOTIFY COR OF ANY UTILITIES NOT SHOWN THAT ARE IN CONFLICT. 0 10 20 40 CONSULTANTS: ARCHITECT/ENGINEERS: Drawing Title VA Project No. 552-15-210 Heapy Project No. 2013-04013 INSTALL STEAM LINE BYPASS B147 TO B121 Office of Heapy Engineering Construction **GRADING PLAN** 121,147 and Facilities MEP Design Technology Planning Commissioning Energy KLEINGERS Management Dayton, Ohio Nationally Recognized Leader in Sustainability CIVIL ENGINEERING
SURVEYING
LANDSCAPE
ARCHITECTURE
West Chester, OH 45069
513,779,7851 C140 1400 W Dorothy Lane, Dayton, OH 45409-1310 Ph 937-224-0861 Fax 937-224-5777 www.heapy.com Department of Veterans Affairs 03/28/2014 | MAH AAB

Date

1. DESCRIPTION OF CONSTRUCTION:

SITE RESTORATION AS A RESULT OF IMPROVEMENTS ON EXISTING STEAM DISTRIBUTION SYSTEM BETWEEN BUIOLDINGS 147 AND 121 (SEE MEP PLANS FOR DETAILS) IN THE CITY OF DAYTON, MONGOMERY COUNTY, OHIO. SITE WORK INCLUDES REMOVAL AND REPLACEMENT OF EXISITNG PAVEMENT, EXISTING CURB, AND THE RELOCATION OF EXISTING SIGN POST AND FOUNDATIONS CONTRACTOR IS TO PROTECT ANY SANITARY SEWERS, STORM SEWERS, WATERLINES AND OTHER RELATED UTILITIES DURING DEMOLITION AND CONSTRUCTION. SOIL DISTURBING ACTIVITIES WILL INCLUDE: CLEARING AND GRUBBING INSTALLATION OF EROSION AND SEDIMENT CONTROLS, GRADING, AND THE PREPARATION FOR FINAL SEEDING.

2. AREA AFFECTED BY CONSTRUCTION: AREA AFFECTED IS LESS THAN 1 ACRE.

3. EXISTING SOIL DATA:

SOIL SYMBOL SOIL DESCRIPTION CROSBY-URBAN LAND COMPLEX MIAMIAN-URBAN LAND COMPLEX, UNDULATING

MIAMIAN-URBAN LAND COMPLEX, ROLLING

4. RECEIVING WATERS:

E. COMPLETE FINAL PAVING

TO BE DETERMINED

5. POTENTIAL POLLUTION SOURCES:

THE MAIN CONTRIBUTION OF ANY POLLUTION SOURCE WOULD BE FROM ANY SOIL DISTURBING ACTIVITIES EXPLAINED IN ITEM #1.

6. RUNOFF COEFFICIENTS:

POST: C=0.90 FOR BUILDINGS AND PAVEMENT, C=0.35 FOR OTHER AREAS.

7. PROJECT SCHEDULE AND SEQUENCE:

A. INSTALL EROSION CONTROL MEASURES B. GRADE THE SITE AND STOCKPILE TOPSOIL MINIMIZING THE DISTURBANCE OF EXISTING VEGETATION

C. STABILIZE DENUDED AREAS AND STOCKPILES WITHIN 7 DAYS OF THE LAST CONSTRUCTION ACTIVITY IN THAT AREA D. INSTALL UTILITIES, STORM SEWER

F. COMPLETE GRADING AND INSTALL PERMANENT SEEDING G. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE EROSION CONTROL MEASURES AND RESEED ANY AREAS DISTURBED BY THEIR REMOVAL

8. CONTROL MEASURES FOR STORM WATER RUNOFF, EROSION AND SEDIMENT:

STABILIZATION OF DENUDED AREAS AND SOIL STOCKPILES

PERMANENT OR TEMPORARY SOIL STABILIZATION WILL BE APPLIED TO DENUDED AREAS WITHIN 7 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION WILL ALSO BE APPLIED TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR MORE THAN 45 DAYS. APPLICABLE PRACTICES INCLUDE VEGETATIVE ESTABLISHMENT, MULCHING, AND THE EARLY APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED. SOIL STABILIZATION MEASURES WILL BE SELECTED TO BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND ESTIMATED DURATION OF USE. SOIL STOCKPILES WILL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES TO PREVENT SOIL LOSS.

ESTABLISHMENT OF PERMANENT VEGETATION

A PERMANENT VEGETATIVE COVER WILL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION WILL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED WHICH IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY AND TO SURVIVE SEVERE WEATHER CONDITIONS. (SEE VEGETATIVE PRACTICES - ITEM 10).

PROTECTION OF ADJACENT PROPERTIES

PROPERTIES ADJACENT TO THE SITE OF LAND DISTURBANCE WILL BE PROTECTED FROM SEDIMENT DEPOSITION. THIS WILL BE ACCOMPLISHED BY PRESERVING A WELL VEGETATED BUFFER STRIP AROUND THE LOWER PERIMETER OF LAND DISTURBANCE, BY INSTALLING PERIMETER CONTROLS SUCH AS SEDIMENT TRAPS, FILTERS OR DIKES, OR SEDIMENT BASINS, OR BY A COMBINATION OF SUCH MEASURES. VEGETATED FILTER STRIPS MAY BE USED ALONE ONLY WHERE RUNOFF IN SHEET FLOW IS EXPECTED. FILTER STRIPS SHOULD BE AT LEAST 15 FEET IN WIDTH. IF AT ANY TIME IT IS FOUND THAT A VEGETATED FILTER STRIP ALONE IS INEFFECTIVE IN STOPPING SEDIMENT MOVEMENT INTO ADJACENT PROPERTY, ADDITIONAL PERIMETER CONTROLS MUST BE PROVIDED.

TIMING AND STABILIZATION OF SEDIMENT TRAPPING MEASURES

SEDIMENT BASINS, DIVERSIONS, SEDIMENT TRAPS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT ON-SITE WILL BE CONSTRUCTED AS A FIRST STEP IN GRADING AND BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE. EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS WILL BE SEEDED AND MULCHED AFTER INSTALLATION.

SEDIMENT BASINS

STORMWATER RUNOFF CONTAINING DAMAGING AMOUNTS OF SEDIMENT SHALL PASS THROUGH A SEDIMENT BASIN OR OTHER SUITABLE SEDIMENT TRAPPING FACILITY.

CUT AND FILL SLOPES

CUT AND FILL SLOPES WILL BE DESIGNED AND CONSTRUCTED IN A MANNER WHICH WILL MINIMIZE EROSION. SLOPES WHICH ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF CONSTRUCTION WILL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.

STORMWATER MANAGEMENT

CONCENTRATED STORMWATER RUNOFF LEAVING THE SITE WILL BE DISCHARGED DIRECTLY INTO A WELL DEFINED ADEQUATELY PROTECTED NATURAL OR MAN-MADE OFF SITE RECEIVING CHANNEL OR PIPE. IF NO OFF SITE CHANNEL OR PIPE EXISTS, THE STORMWATER WILL BE DETAINED ON SITE IN A SUITABLE RETENTION/DETENTION FACILITY.

STORM SEWER INLET PROTECTION

ALL STORM SEWER INLETS WHICH ARE MADE OPERABLE DURING CONSTRUCTION WILL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.

WORKING IN OR CROSSING WATERCOURSES

CONSTRUCTION VEHICLES WILL BE KEPT OUT OF WATERCOURSES WHENEVER POSSIBLE. WHERE IN-CHANNEL WORK IS NECESSARY, PRECAUTIONS WILL BE TAKEN TO STABILIZE THE WORK AREA DURING CONSTRUCTION TO MINIMIZE EROSION. THE CHANNEL (INCLUDING BED AND BANKS) WILL ALWAYS BE RESTABILIZED IMMEDIATELY AFTER IN-CHANNEL WORK IS COMPLETED. WHERE A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES REGULARLY DURING CONSTRUCTION, A TEMPORARY STREAM CROSSING WILL BE PROVIDED.

DISPOSITION OF TEMPORARY MEASURES

ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WILL BE DISPOSED OF AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES WILL BE PERMANENTLY STABILIZED TO PREVENT EROSION AND SEDIMENTATION.

<u>MAINTENANCE</u>

ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL

MEASURES WILL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.

i.e. STORM INLET PROTECTION

INLET STRUCTURES SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND

THE INLET PROTECTION SHALL BE RESTORED TO ITS ORIGINAL WORKING CONDITION. AT NO TIME SHALL MORE THAN A 2" BUILD

UP OF SEDIMENT REMAIN AROUND THE INLET PROTECTION.

i.e. FILTER STRIPS A HEALTHY GROWTH OF VEGETATION CAN BEST BE MAINTAINED BY FERTILIZING, REMOVING SEDIMENT WHEN FILTER BECOMES CLOGGED, AND BY PREVENTING CONSTRUCTION TRAFFIC FROM

i.e. SILT FENCES AND FILTER BARRIERS

DRIVING ACROSS FILTER STRIPS.

SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

i.e. STRAW BALE BARRIERS

STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE

9. CONSTRUCTION CONTROL PRACTICES:

STRAW BALE BARRIERS (SBB) SEE STRAW BALE BARRIER DETAIL BALES WILL BE PLACED IN A SINGLE ROW, LENGTHWISE ON THE CONTOUR (FOR SHEET FLOW APPLICATIONS), OR PERPENDICULAR TO THE CONTOUR (FOR CHANNEL FLOW APPLICATIONS), WITH BOTH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER. ALL BALES SHALL BE EITHER WIRE BOUND OR STRING TIED. SAID BINDINGS SHALL BE INSTALLED SO THAT THEY ARE ORIENTED AROUND THE SIDES RATHER THAN ALONG THE TOPS AND BOTTOMS OF THE BALES TO PREVENT DETERIORATION OF THE BINDINGS. A TRENCH SHALL BE EXCAVATED THE WIDTH OF A BALE AND THE LENGTH OF THE PROPOSED BARRIER TO A MINIMUM DEPTH OF 4 INCHES. EACH BALE SHALL BE ANCHORED BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER. STAKES OR REBARS WILL BE DRIVEN DEEP ENOUGH INTO THE GROUND TO SECURELY ANCHOR THE BALES. GAPS BETWEEN BALES SHALL BE CHINKED (FILLED BY

WEDGING) WITH STRAW TO PREVENT WATER FROM ESCAPING BETWEEN

BALES. AFTER THE BALES ARE STAKED AND CHINKED THE EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE BARRIER. LOOSE STRAW

SHALL BE SCATTERED OVER THE AREA IMMEDIATELY UPHILL FROM A

STRAW BALE BARRIER TO INCREASE BARRIER EFFICIENCY

1/ ALL PERMANENT SEEDING SHALL BE COMPLETED BETWEEN APRIL 1 TO MAY 15, OR AUGUST 15 TO SEPTEMBER 30.

SILT FENCES (SF) SEE SILT FENCE DETAIL

MATERIAL: SYNTHETIC FILTER FABRIC SHALL BE A SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS.

PHYSICAL PROPERTY REQUIREMENTS

FILTERING EFFICIENCY 75 PERCENT (MIN.)

TENSILE STRENGTH AT EXTRA STRENGTH 20% (MAX.) ELONGATION 50 lbs/lin. in. (MIN.) STANDARD STRENGTH

FLOW RATE 0.3 gal./sq. ft./min. (MIN.)

30 lbs/lin. in. (MIN.)

* REQUIREMENTS REDUCED BY 50% AFTER 6 MONTHS OF INSTALLATION.

SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF 6 MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE OF ZERO DEGREES F TO 120 DEGREES F.

BURLAP SHALL BE 10 OUNCES PER SQ. YD. OF FABRIC.

POSTS FOR SILT FENCES SHALL BE EITHER 2" x 2" WOOD OR STEEL WITH A MIN. LENGTH OF 5 FEET. STEEL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.

WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MIN. OF 42 INCHES IN HEIGHT, A MIN. OF 14 GA. AND SHALL HAVE A MAX. MESH SPACING OF 6 INCHES.

THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXCEED 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

FENCE POST SPACING SHALL NOT EXCEED 6 FEET.

WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS APPLYING.

CHECK DAM (CD)

CHECK DAMS ARE USUALLY INEFFECTIVE FOR CATCHING SEDIMENT BUT CAN SLOW FLOW VELOCITIES AND REDUCE CHANNEL EROSION. ROCK TYPE AND SIZE OF THE DAM ARE TO BE DETERMINED BY THE

IF AT ANY TIME IT IS FOUND THAT A CHECK DAM ALONE IS INEFFECTIVE IN ADEQUATELY PERFORMING ITS FUNCTION, ADDITIONAL CONTROL MEASURES MUST BE PROVIDED.

DANDY BAG (DB)

10. VEGETATIVE PRACTICES: FILTER STRIP (FS)

(SEE DETAIL)

A STRIP OR AREA OR VEGETATION (BEING A MIN. OF 15 FEET AND A MAX. OF 100 FEET IN WIDTH) TO REMOVE SEDIMENT AND OTHER POLLUTANTS FROM RUNOFF. THIS PRACTICE APPLIES TO LAND UNDERGOING DEVELOPMENT WHERE FILTER STRIPS ARE NEEDED TO REDUCE SEDIMENT DAMAGE TO ADJACENT PROPERTY. EXISTING GRASS OR GRASS/LEGUME MIXTURES, IF WELL ESTABLISHED, SHOULD BE USED AS FILTER STRIPS.

THE FOLLOWING CHART APPLIES WHEN ESTABLISHING NEW SEEDINGS.

SEEDING MIXTURE AND SITE SUITABILITY CHART

SEEDING MIXTURE1	RATE lbs/acre	WET2	WELL DRAINED3
1. Alfalfa4/	10	*	
or Red Clover	10		
plus			
Timothy	4		
or Orchardgrass	6		
or Bromegrass	6		
2. Ladino Clover4/	1/2	*	*
plus			
Timothy	4		
or Orchardgrass	6		
or Bromegrass	8		

Tall Fescue 4. Reed Canarygrass plus

Tall Fescue

2/ INCLUDES SITES WHICH ARE EXCESSIVELY WET ONLY A PORTION OF THE GROWING SEASON.

3/ INCLUDES SITES WHICH ARE WELL DRAINED WITH TILE; ALSO NATURALLY WELL DRAINED AND DROUGHTY SITES.

4/ MIXTURES 1 AND 2 ARE MORE DESIRABLE FOR WILDLIFE

VEGETATIVE STREAMBANK STABILIZATION (VSS)

TO PROTECT THE BANKS OF CREEKS, STREAMS, AND RIVERS WHICH ARE, OR MAY BE AFFECTED BY EXCESS RUNOFF FROM CONSTRUCTION ACTIVITIES.

TREES AND BRUSH THAT WILL AFFECT THE GROWTH OF DESIRABLE VEGETATION WILL BE REMOVED.

PRIOR TO SEEDING OR PLANTING, CLEAR THE STREAM CHANNEL OF FALLEN TREES, STUMPS, AND OTHER DEBRIS THAT MAY FORCE STREAMFLOW INTO STREAMBANK.

WHERE NECESSARY THE STREAMBANK SIDE SLOPE SHALL BE CUT BACK TO A 2:1 SLOPE OF FLATTER AND REMOVE OVERHANGING BANK EDGES.

THE SEEDED SHALL BE ROUGHENED WITH A RAKE OR SIMILAR TOOL AND FERTILIZED WITH 100 lbs. PER ACRE OF 15-15-15 OR EQUIVALENT (24 lbs./100 SQ. FT.).

GRASS SELECTION AND ESTABLISHMENT:

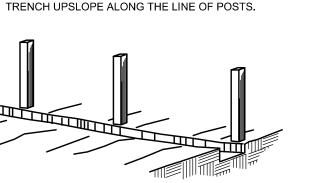
A. TALL FESCUE--SEED AT A RATE OF 40 lbs./ACRE (1 lb./100 SQ. FT.) AND MULCH WITH STRAW AT A RATE OF 2 TONS PER ACRE (90 lbs./1000 SQ. FT.). ESTABLISH BETWEEN APRIL 1 TO MARCH 15 OR AUGUST 1 TO SEPTEMBER 30. COVER THE SEED 1/4-1/2 INCH BY RAKE OR SIMILAR TOOL. THIS IS THE MOST WIDELY USED AND BEST ADAPTED GRASS FOR STREAMBANK SEEDINGS. ITS HAS GOOD TOLERANCE TO WET SOILS AND FLOODING. IT IS ALSO WELL ADAPTED TO WELL DRAINED SOILS.

B. REED CANARYGRASS (PHALARIS ARUNDINACAE) PLUS TALL FESCUE-SEED THE REED CANARYGRASS AT A RATE OF 15 lbs./ACRE (1/3 lb./1000 SQ. FT.), PLUS 10 lbs./ACRE (1/4 lb./1000 SQ. FT.) OF TALL FESCUE. MULCH WITH STRAW AT A RATE OF 2 TONS/ACRE (90 lbs./1000 SQ. FT.). THIS MIXTURE SHOULD ONLY BE SEEDED FROM MARCH 1 TO MAY 15, OR AUGUST 15 TO SEPTEMBER 30. COVER THE SEED 1/4-1/2 INCH BY RAKING OR SIMILAR TOOL. THIS MIXTURE IS ADAPTABLE TO SOILS THAT ARE VERY WET AS WELL AS WELL DRAINED SOIL CONDITIONS. REED CANARYGRASS CAN WITHSTAND EXTENDED PERIODS OF FLOODING. IT IS EXCELLENT FOR EROSION CONTROL. REED CANARYGRASS CAN ALSO BE ESTABLISHED BY SOD STRIPS, USING RHIZIMES, OR FRESHLY CUT CULMS. THE LOCAL CONSERVATION SERVICE OFFICE CAN PROVIDE THE SPECIFIC DETAILS REQUIRED TO USE ONE OF THE ALTERNATIVE ESTABLISHMENT METHODS.

11. FINAL SITE STABILIZATION

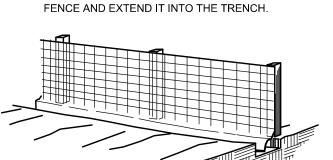
FINAL SITE STABILIZATION IS CONSIDERED ACHIEVED ONCE ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES ARE REMOVED AND DISPOSED OF AND ALL TRAPPED SEDIMENT HAS BEEN PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.

1. SET POSTS AND EXCAVATE A 4" X 4"

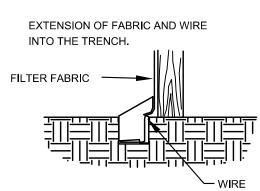


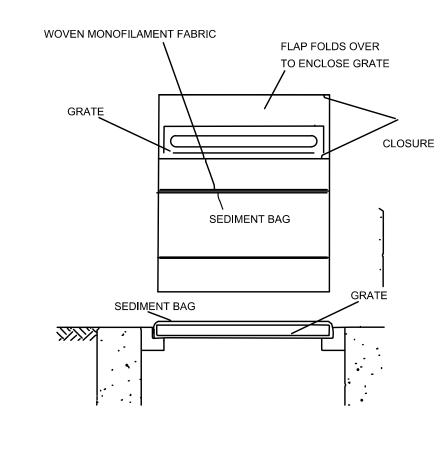
2. STAPLE WIRE FENCING TO THE POSTS.

3. ATTACH THE FILTER FABRIC TO THE WIRE



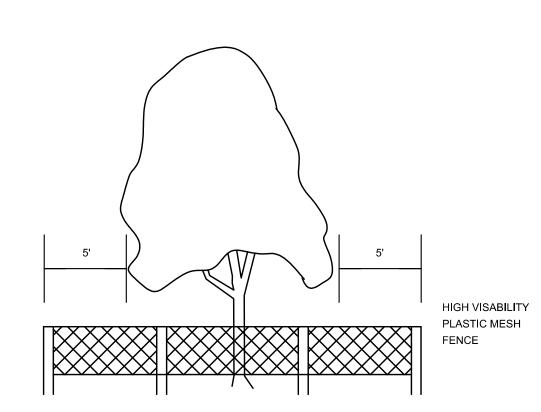
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.





SEDIMENT BAG (SB)

SEDIMENT BAG TO MEET OR EXCEED SPECIFICATION REQUIREMENTS OF DANDY BAG. CONTRACTOR TO INSTALL PER MANUFACTURER'S REQUIREMENTS. CONTRACTOR TO INSPECT, MAINTAIN, AND REPLACE PER NOTE 5 THIS SHEET: MAINTENANCE: STORM INLET PROTECTION. SEDIMENT BAG TO BE USED ON ALL INLETS WITHIN WORK LIMITS



PROTECTION OF EXISTING TREES AND VEGETATION

PROTECT EXISTING TREES AND OTHER VEGETATION INDICATED TO REMAIN IN PLACE AGAINST UNNECESSARY CUTTING, BREAKING OR SKINNING OF ROOTS, SKINNING OR BRUISING OF BARK, SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION MATERIALS OR EXCAVATED MATERIALS WITHIN DRIP LINE, EXCESS FOOT OR VEHICULAR TRAFFIC, OR PARKING OF VEHICLES WITHIN DRIP LINE. PROVIDE TEMPORARY GUARDS TO PROTECT TREES AND VEGETATION TO BE LEFT STANDING.





CONSULTANTS:

KLEINGERS CIVIL ENGINEERING | www.kleingers.com SURVEYING
LANDSCAPE
ARCHITECTURE

6305 Centre Park Dr.
West Chester, OH 45069
513.779.7851





Heapy Engineering MEP Design Technology Planning Commissioning Energy

Nationally Recognized Leader in Sustainability 1400 W Dorothy Lane, Dayton, OH 45409-1310 Ph 937-224-0861 Fax 937-224-5777 www.heapy.com **EROSION CONTROL NOTES AND DETAILS**

Project Title **INSTALL STEAM LINE BYPASS** B147 TO B121

Dayton, Ohio

121,147 rawing Number

VA Project No. 552-15-210

Heapy Project No. 2013-04013

Construction and Facilities Management

Department of Veterans Affair

Office of

Approved:

Drawing Title

03/28/2014 MAH AAB

MOT SIGN KEY:

ACCESS



R11-2 (48"x30")

(30"x24")

(30"x24")

(21"x15")

ROAD CLOSED

DETOUR

DETOUR END DETOUR

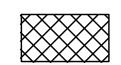
R11-4

(30"x24")

(24"x18")

M4-8A

LEGEND:



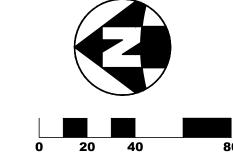
AREA UNDER CONSTRUCTION

MOT KEY NOTES:

- ODOT TYPE 3 BARRICADE.
- CONTRACTOR TO RESTRICT PARKING SPACES ON BOTH SIDES OF MAINE AVENUE WHERE INDICATED.

NOTES:

- CONTRACTOR TO MAINTAIN ACCESS TO THE PARKING AREAS FOR BUILDINGS 147 AND 126 AT ALL TIMES.
- 2. CONTRACTOR TO PLACE ALL BARRICADES AND MOUNT ALL SIGNS IN ACCORDANCE WITH THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- CONTRACTOR TO ENSURE ALL MAINTENANCE OF TRAFFIC DEVICES REMAIN IN PLACE FOR THE ENTIRE DURATION OF THE CONSTRUCTION ACTIVITY IN THE ROADWAY.



08/03/13 11/15/13 01/27/14 02/27/14 03/26/14

Date





MAINTENANCE OF TRAFFIC

INSTALL STEAM LINE BYPASS B147 TO B121

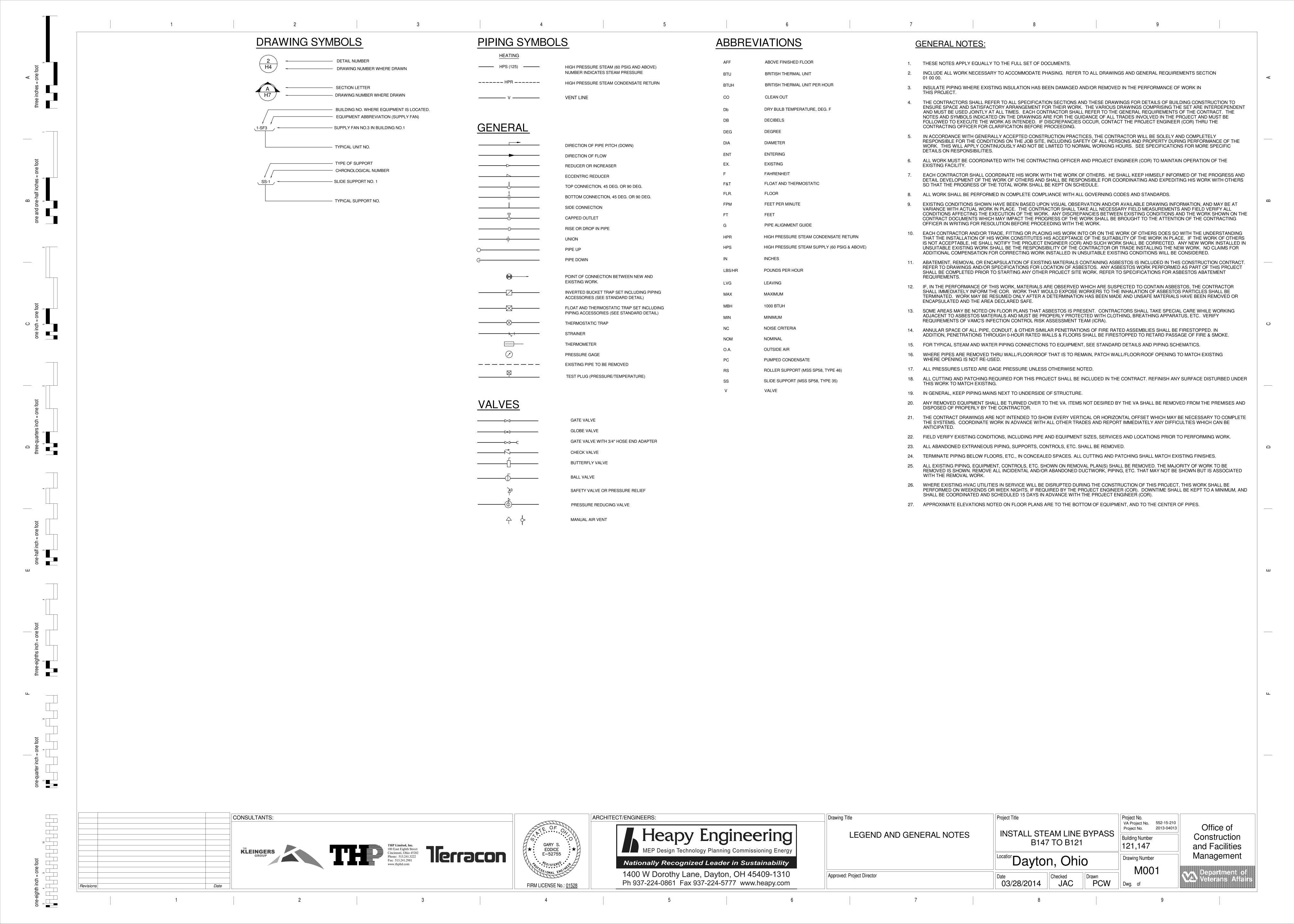
VA Project No. 552-15-210 Heapy Project No. 2013-04013 121,147 rawing Number

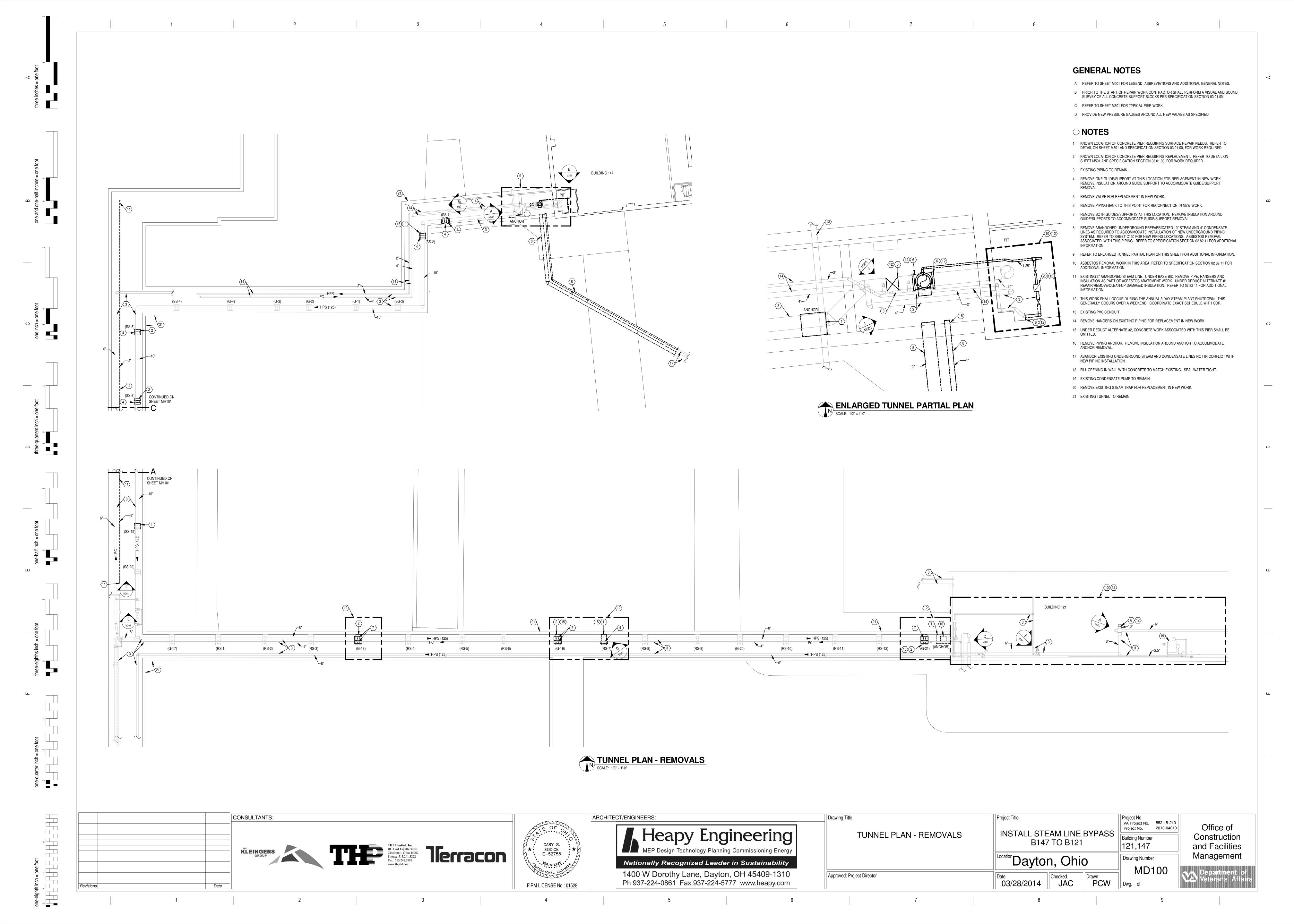
Office of Construction and Facilities Management

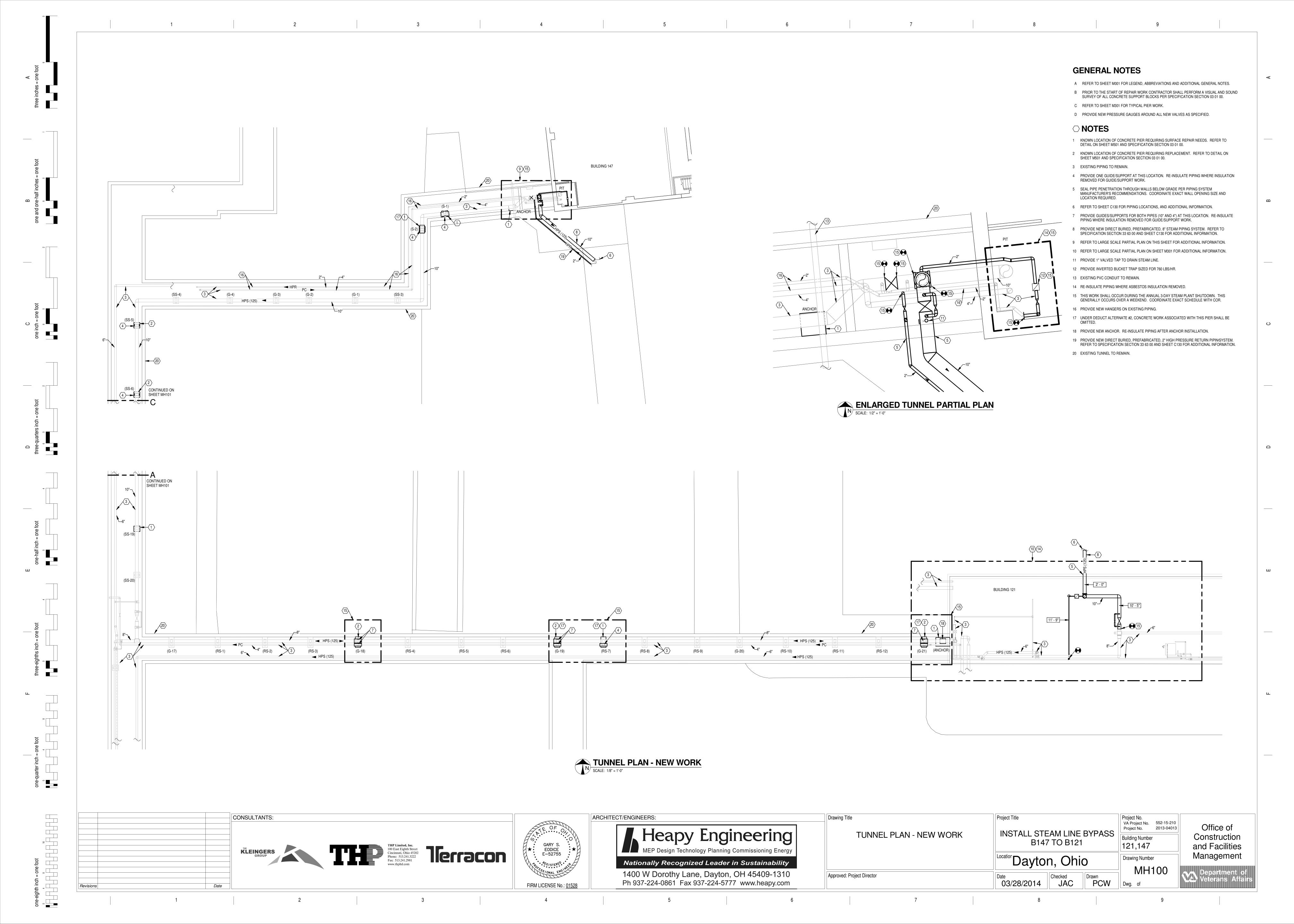
Dayton, Ohio 03/28/2014 AAB MAH

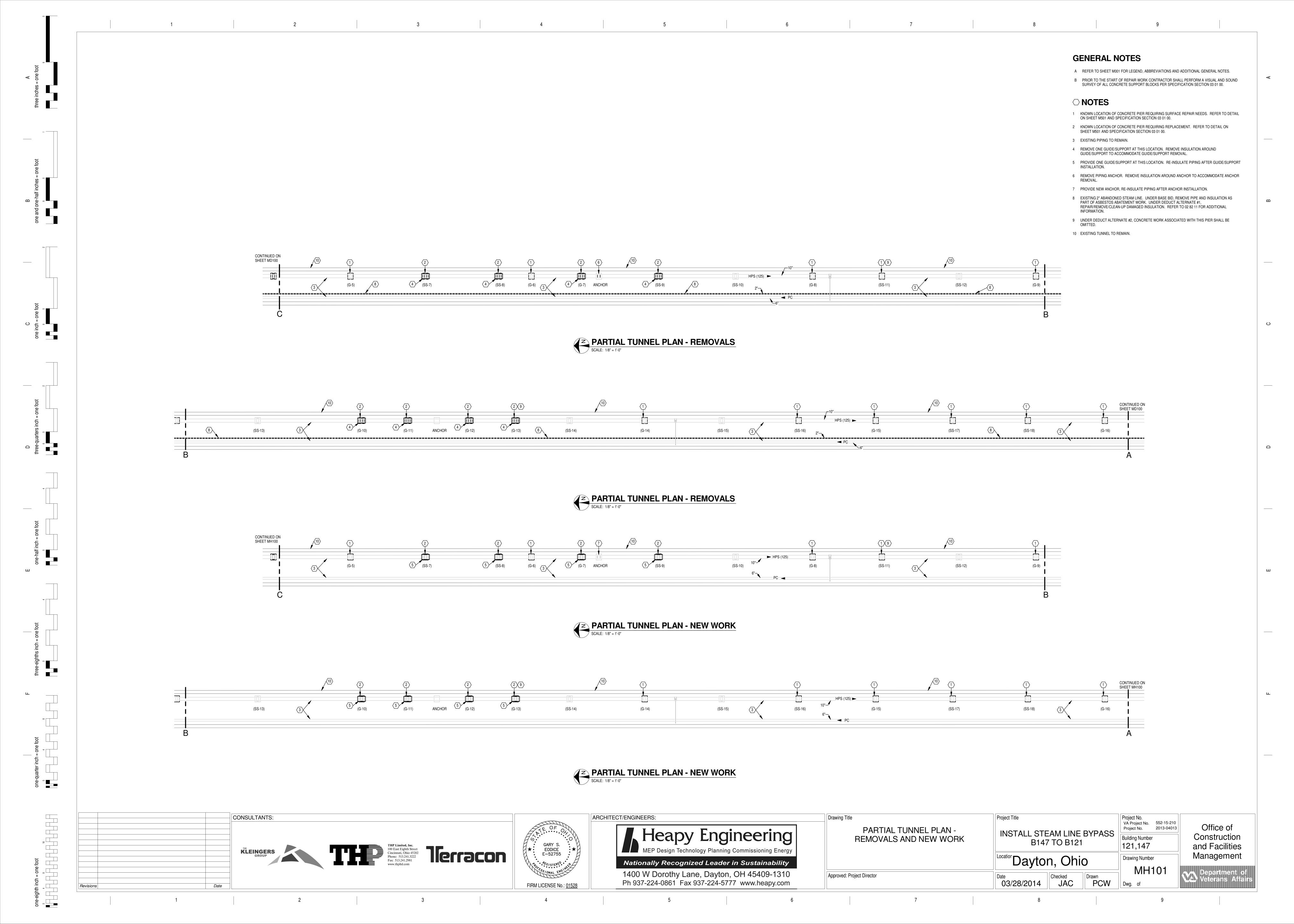
C160

Department of Veterans Affairs











PICTURE "A" Scale: N.T.S



PICTURE "E" Scale: N.T.S



PICTURE "I" Scale: N.T.S



PICTURE "K" Scale: N.T.S



5 REMOVE BOTH PIPE ALIGNMENT GUIDES AT THIS LOCATION. REMOVE INSULATION AROUND PIPE ALIGNMENT GUIDE TO ACCOMMODATE GUIDE REMOVAL.

GENERAL NOTES

○ NOTES

- 6 PROVIDE PIPE ALIGNMENT GUIDE FOR BOTH PIPES (8" AND 4") AT THIS LOCATION. RE-INSULATE PIPING WHERE INSULATION REMOVED FOR PIPE ALIGNMENT GUIDE WORK.

A REFER TO SHEET M001 FOR LEGEND, ABBREVIATIONS AND ADDITIONAL GENERAL NOTES.

1 KNOWN LOCATION OF CONCRETE PIER REQUIRING SURFACE REPAIR NEEDS. REFER TO DETAIL ON SHEET M501 AND SPECIFICATION SECTION 03 01 00.

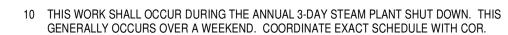
2 SEAL PIPE PENETRATION THROUGH WALLS BELOW GRADE PER PIPING SYSTEM MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT WALL OPENING SIZE AND LOCATION REQUIRED.

3 PROVIDE STEAM LINE DRIP ASSEMBLY WITH INVERTED BUCKET TRAP. REFER TO DETAIL

4. PROVIDE NEW ANCHOR. RE-INSULATE PIPING WHERE INSULATION REMOVED FOR ANCHOR

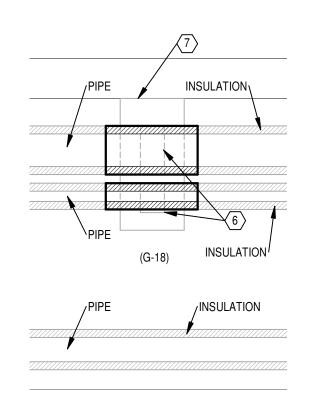
B PRIOR TO THE START OF REPAIR WORK CONTRACTOR SHALL PERFORM A VISUAL AND SOUND SURVEY OF ALL CONCRETE SUPPORT BLOCKS PER SPECIFICATION SECTION 03 01 00.

- 7 KNOWN LOCATION OF CONCRETE PIER REQUIRING REPLACEMENT. REFER TO DETAIL ON SHEET M501 AND SPECIFICATION SECTION 03 01 00, FOR WORK REQUIRED.
- 8 EXISTING PIPING TO REMAIN. RE-INSULATE PIPING WHERE ASBESTOS INSULATION REMOVED.
- 9 UNDER DEDUCT ALTERNATE #2, THE CONCRETE WORK ASSOCIATED WITH THIS PIER SHALL BE





PICTURE "J"





PICTURE "B"

PICTURE "C" Scale: N.T.S

PICTURE "D"

Date

CONSULTANTS:

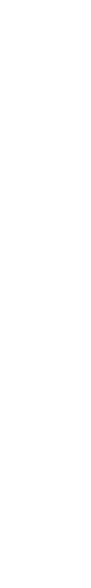
Scale: N.T.S



PICTURE "F"

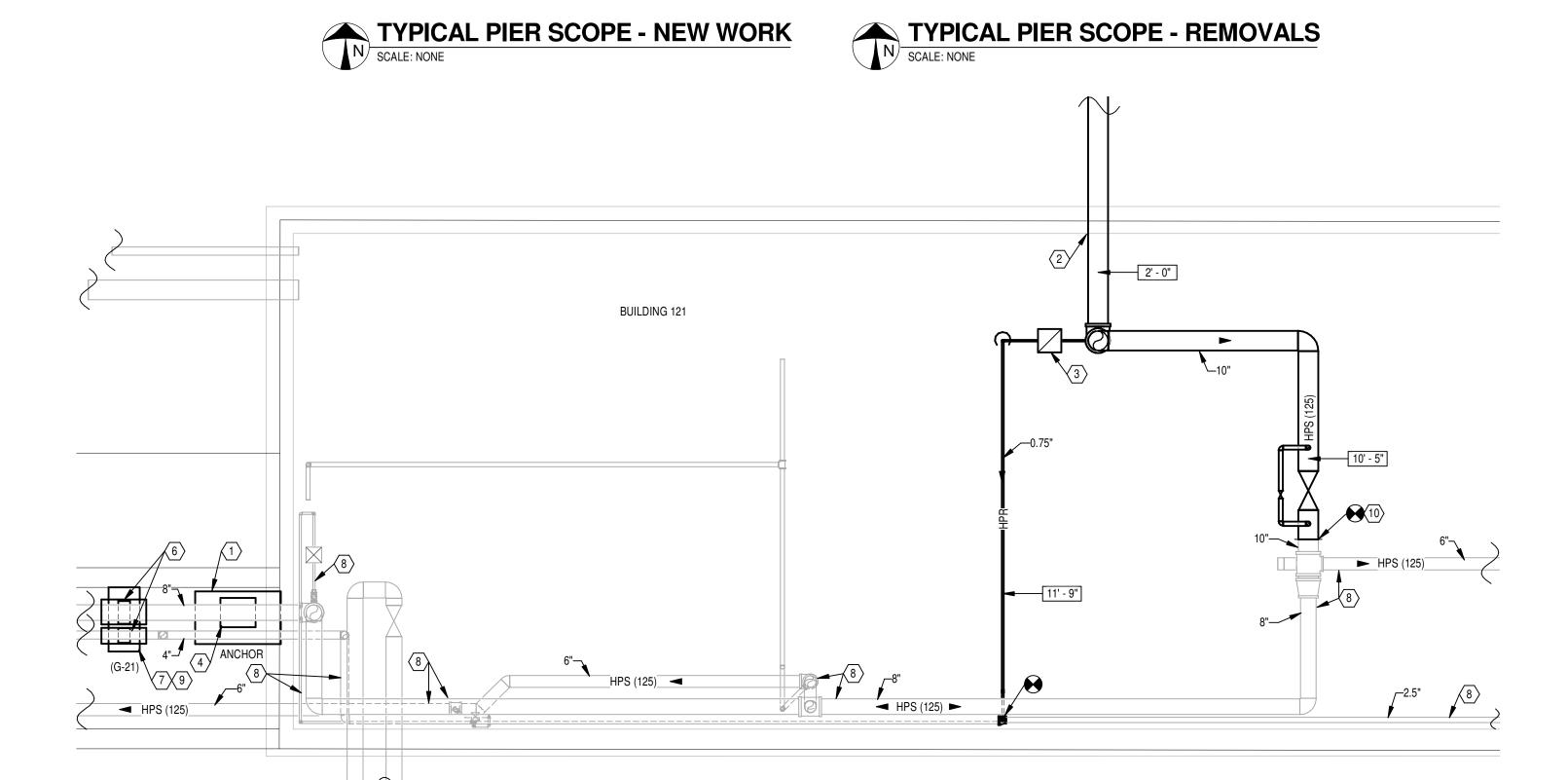
Scale: N.T.S

PICTURE "G" Scale: N.T.S





PICTURE "H" Scale: N.T.S

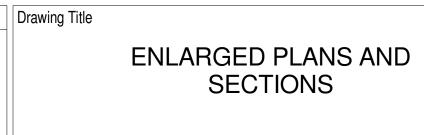


ENLARGED PARTIAL PLAN - BUILDING 121

SCALE: 1/4" = 1'-0"









Location Dayton, Ohio

Project No. 552-15-210
Project No. 2013-04013 Building Number 121,147 Drawing Number

Office of Construction and Facilities Management

Approved: Project Director

Checked JAC 03/28/2014

M301 Drawn PCW

Department of Veterans Affairs

